

AMENDMENTS TO THE CLAIMS

Claim 1 (CURRENTLY AMENDED) An electrical power system within the hull of a small watercraft comprising: a PEMFC; a hydrogen supply system to supply hydrogen to the PEMFC; an oxygen supply system to supply oxygen to the PEMFC; a through the hull heat exchange means in direct thermal contact with at least a portion of the PEMFC; whereby at least a portion of the radiated heat from the PEMFC is exchanged directly with the marine environment; and, a rechargeable battery to be recharged from at least a portion of the output of the PEMFC.

Claim 2 (ORIGINAL) The electrical power system of claim 1 further comprising a propulsion module to receive electrical power provided by at least one of the PEMFC and the rechargeable battery.

Claim 3 (ORIGINAL) The electrical power system of claim 1 wherein the hydrogen supply system further comprises at least one pressurized hydrogen storage tank.

Claim 4 (ORIGINAL) The electrical power system of claim 1 wherein the hydrogen supply system further comprises a reformation means, whereby hydrogen is generated through the reformation of hydrogen rich fuels.

Claim 5 (ORIGINAL) The electrical power system of claim 1 further comprising a DC/DC converter through which electrical power from the PEMFC is converted to a selected DC.

Claim 6 (ORIGINAL) The electrical power system of claim 1 further comprising an inverter through which electrical power from the PEMFC is converted to a selected AC.

Claim 7 (ORIGINAL) The electrical power system of claim 1 further comprising; an inverter through which electrical power from the PEMFC is converted to a selected AC; and; a DC/DC converter through which electrical power from the PEMFC is converted to a selected DC.

Claim 8 (ORIGINAL) The electrical power system of claim 1 further comprising a controller whereby the recharging of the battery from the electricity produced by the PEMFC is controlled.

Claim 9 (ORIGINAL) The electrical power system of claim 8 further comprising a sensor which provides information to the controller about the charge of the battery.

Claim 10 (WITHDRAWN) The electrical power system of claim 1 further comprising a through the hull heat exchange means.

Claim 11 (WITHDRAWN) The electrical power system of claim 10 wherein the through the hull heat exchange means is a fuel cell heat exchanger thermally connected to a heat exchange region.

Claim 12 (ORIGINAL) The electrical power system of claim 2 further comprising at least one controller whereby the flow of electricity to the propulsion module can be varied.

Claim 13 (ORIGINAL) The electrical power system of claim 1 further comprising a DC/DC converter through which electrical power from at least on one of the rechargeable battery and the PEMFC is converted to a selected DC.

Claim 14 (ORIGINAL) The electrical power system of claim 1 further comprising an inverter through which electrical power from at least one of the rechargeable battery and the PEMFC is converted to a selected AC.

Claim 15 (CURRENTLY AMENDED) An electrical propulsion system within the hull of a small watercraft comprising: a PEMFC; a hydrogen supply system; an oxygen supply system; a rechargeable battery to be recharged from the output of the PEMFC; a through the hull heat exchange means in direct thermal contact with at least a portion of the PEMFC; whereby at least a portion of the radiated heat from the PEMFC is exchanged directly with the marine environment; and, a propulsion module to receive electrical power provided by the rechargeable battery.

Claim 16 (ORIGINAL) The electrical power system of claim 15 wherein the hydrogen supply system further comprises at least one pressurized hydrogen storage tank.

Claim 17 (ORIGINAL) The electrical power system of claim 15 wherein the hydrogen supply system further comprises a reformation means, whereby hydrogen is generated through the reformation of hydrogen rich fuels.

Claim 18 (ORIGINAL) The electrical power system of claim 15 further comprising a DC/DC converter through which electrical power from the PEMFC is converted to a selected DC.

Claim 19 (ORIGINAL) The electrical power system of claim 15 further comprising an inverter through which electrical power from the rechargeable battery is converted to a selected AC.

Claim 20 (ORIGINAL) The electrical power system of claim 15 further comprising a controller whereby the recharging of the battery from the electricity produced by the PEMFC is controlled.

Claim 21 (ORIGINAL) The electrical power system of claim 20 further comprising a sensor which provides information to the controller about the charge of the battery.

Claim 22 (WITHDRAWN) The electrical power system of claim 15 further comprising a through the hull heat exchange means.

Claim 23 (WITHDRAWN) The electrical power system of claim 22 wherein the through the hull heat exchange means is a fuel cell heat exchanger thermally connected to a heat exchange region.

Claim 24 (ORIGINAL) The electrical power system of claim 15 further comprising at least one controller whereby the flow of electricity to the propulsion module can be varied.